INTERNATIONAL SEARCH REPORT International application No. CLASSIFICATION OF SUBJECT MATTER PCT/JP2004/013301 Int.Cl7 H02M5/27 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H02M5/00-5/48, H02M1/00-1/30, H02J3/00-5/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Toroku Jitsuyo Shinan Koho Kokai Jitsuyo Shinan Koho 1971-2004 1994-2004 Jitsuyo Shinan Toroku Koho Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) 1996-2004 C. DOCUMENTS CONSIDERED TO BE RELEVANT Category\* Citation of document, with indication, where appropriate, of the relevant passages Y Relevant to claim No. 2003-244960 A (Yaskawa Electric Corp.), 29 August, 2003 (29.08.03), 1 - 3Par. Nos. [0005] to [0010]; Figs. 1 to 5 (Family: none) JP 63-114531 A (The Tokyo Electric Power Y Co., Inc., Fuji Electric Co., Ltd.), 1-3 19 May, 1988 (19.05.88), Page 2, upper right column, line 8 to page 3, upper left column, line 2; drawings (Family: none) JP 61-69333 A (Toshiba Corp.), A 09 April, 1986 (09.04.86), 1-3 Full text; Fig. 1 (Family: none) Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: "A" document defining the general state of the art which is not considered later document published after the international filing date or priority date and not in conflict with the application but cited to understand to be of particular relevance the principle or theory underlying the invention "E" earlier application or patent but published on or after the international filing date document of particular relevance; the claimed invention cannot be document which may throw doubts on priority claim(s) or which is considered novel or cannot be considered to involve an inventive step when the document is taken alone cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be document referring to an oral disclosure, use, exhibition or other means "O" considered to involve an inventive step when the document is combined with one or more other such documents, such combination document published prior to the international filing date but later than being obvious to a person skilled in the art the priority date claimed document member of the same patent family Date of the actual completion of the international search 13 December, 2004 (13.12.04) Date of mailing of the international search report 28 December, 2004 (28.12.04) Name and mailing address of the ISA/ Japanese Patent Office Authorized officer

Telephone No.

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Category*	Citation of document, with indication, where appropriate, of the relevant passages		Pole	
1	JP 4-33527 A (Toyo Electric Mfg. Co., 04 February, 1992 (04.02.92), Full text; Fig. 3 (Family: none)	Ltd.),	Relevant to claim N	
A	JP 8-265085 A (Nemic-Lambda Kabushiki 11 October, 1996 (11.10.96), Full text; Fig. 1 (Family: none)	Kaisha),	1-3	
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The inventions of claims 2, 3 include "a voltage detection device for detecting voltage at both ends of the smoothing capacitor". However, what is disclosed within the meaning of PCT Article 5 is only a PWM cyclo converter not having the voltage detection device disclosed in the Description. That is, claims 2, 3 are not supported by the Description within the meaning of PCT Article 6.

Accordingly, the search has been performed for the range supported by and disclosed in the Description, i.e., the PWM cyclo converter not having the voltage detection device.